

CLAIMS

[1] A bobbin for a coil comprising:

abobbinbodyformedofaninsulatingmaterial, andcapable of fitting into the inside of windings of a coil; and

a protrusion formed of an insulating material, extending outward from an outer peripheral surface of said bobbin body, and capable of interposing between the windings.

[2] A bobbin for a coil according to claim 1, wherein:

said bobbin comprises two or more of said protrusions, and

said two or more protrusions are spaced apart from one another at intervals of a predefined spacing corresponding to a pitch of the windings with respect to a lengthwise direction of said bobbin body.

[3] A bobbin for a coil according to claim 1 or 2, further comprising:

stopper means protruding from said bobbin body, and abutting to the windings or core when said bobbin is mounted in the coil to prevent said bobbin from rotating.

[4] A bobbin for a coil according to claim 3, wherein:

said stopper means comprises a stopper piece which is arranged to protrude outward from the outer peripheral surface of saidbobbinbodysubstantiallyontheopposite side of saidprotrusion, and fits in a slit formed at a bend of a coil winding.

[5] A bobbin for a coil according to claim 3, wherein said stopper means comprises:

a flange extending outward from the outer peripheral surface of said bobbin body at an end of said bobbin body in a lengthwise direction; and

at least one stopper protrusion protruding from an edge of said flange in a direction opposite to a direction in which said bobbin body extend for engagement with a core.

[6] A bobbin for a coil according to claim 1 or 2, wherein said protrusion has a thickness dimension which is set to a size equal to or larger than a spacing between said windings.

[7] A coil comprising said bobbin according to any of claims 1 to 6.

[8] A coil according to claim 7, further comprising a core.

[9] A transformer comprising said bobbin according to any of claims 1 to 6 in at least one winding of a primary winding and a secondary winding.

[10] A DC-DC converter including said transformer according to claim 9.

[11] An electronic part including said coil according to claim 7 or 8.

[12] An electronic part mounted in a vehicle, including said coil according to claim 7 or 8.